Map of parcels at 33 kft on 04072518 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04072518 2.0 Days Since Convection 1.5 1.0 0.5 0.0 NASA/ARC Last Image Used is 0407251745

Map of parcels at 33 kft on 04072518 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04072518 4.5 Days Since Convection 4.0 3.5 3.0 ·°2.5 NASA/ARC Last Image Used is 0407251745 **PSL** 1190 Trajectories

Map of parcels at 33 kft on 04072518 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04072518 7.5 7.0 Days Since Convection 6.5 6.0 5.5 5.0 NASA/ARC **PSL** ast Image Used is 0407251745 1190 Trajectories

Map of parcels at 33 kft on 04072518 influenced by convection 7.5 to 10.0 days earlier Squares indicate location of convectively influenced air influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 040725 10.0 9.5 Days Since Convection 9.0 8.5 8.0 7.5 NASA/ARC **PSL** Last Image Used is 0407251745 1190 Trajectories